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The present invention discloses an antifouling coating composition having excellent antifouling performances without polluting the environment, good uniform consumption and terrific long-term antifouling performance while being made into a coating film, and an antifouling coating film thereof, and ship, underwater construction, fishing gear and fishnet coated therewith. This antifouling coating composition comprises (A) a metal-contained copolymer copolymerized from a metal-contained polymerizing unsaturated monomer (a1) and a radical polymerizing unsaturated monomer containing no metal (a2), (B) 4,5-dichloro-2-n-octyl-4-isothiazolin-3-one, and (C) metal pyrithione compound, and substantially comprises no cuprous oxide and organotin.